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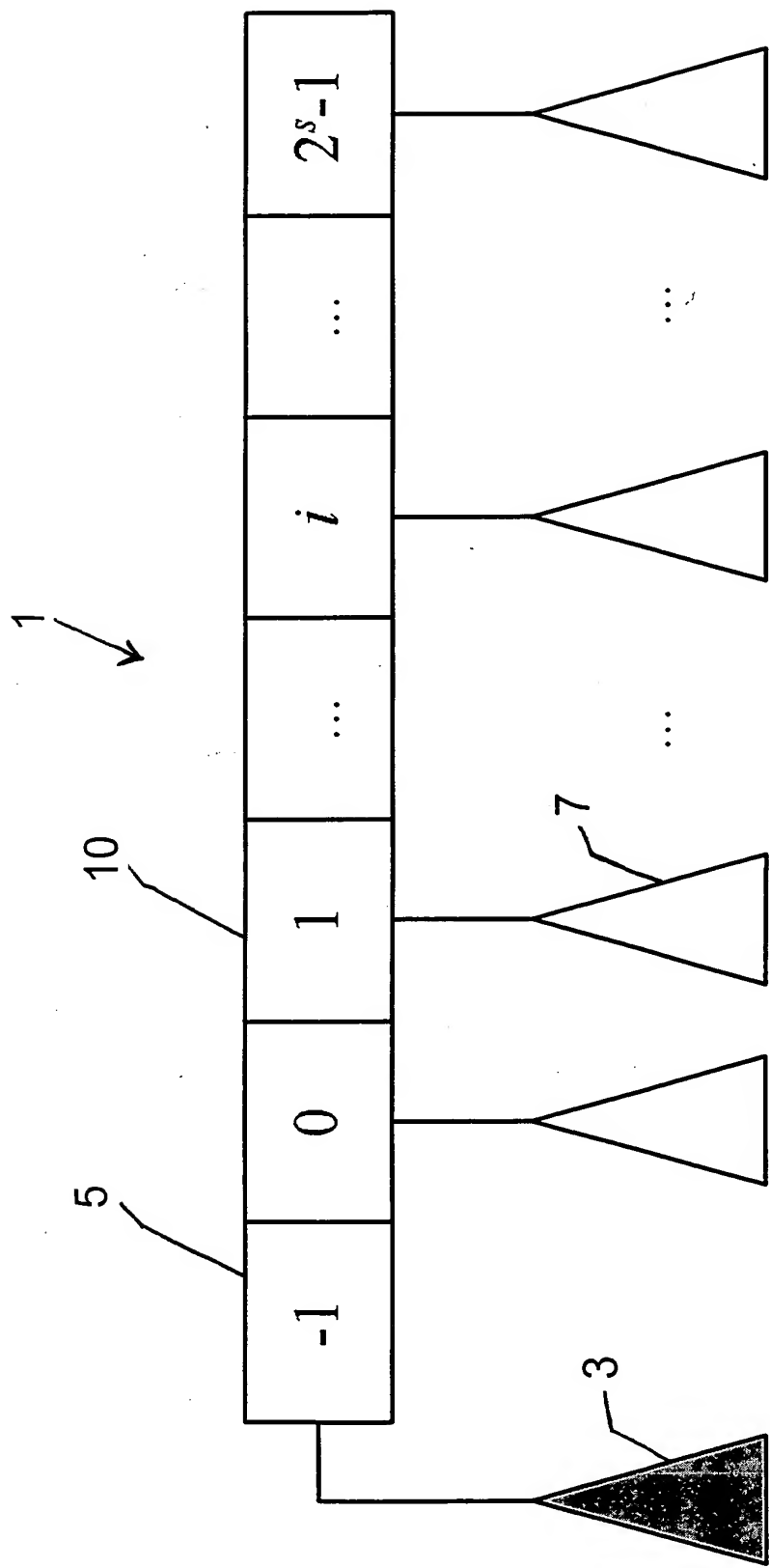


FIG. 1

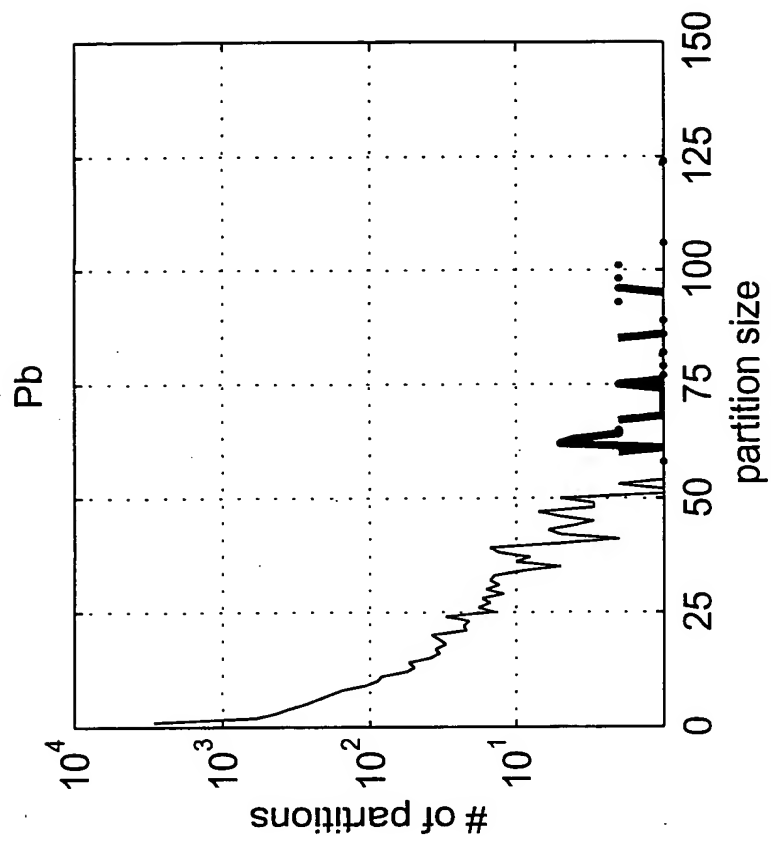


FIG. 2A

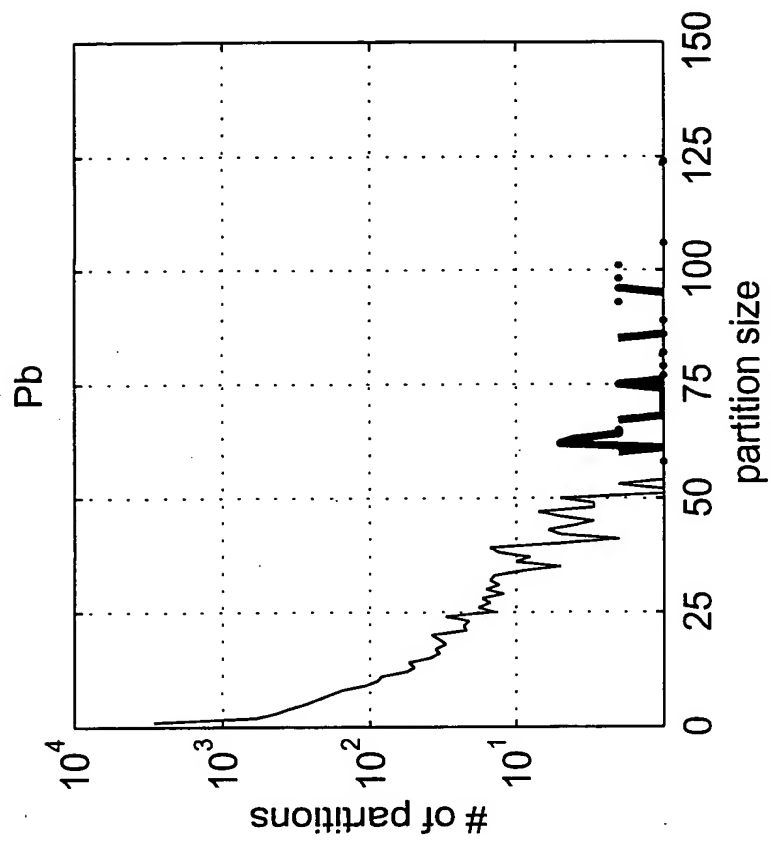


FIG. 2B

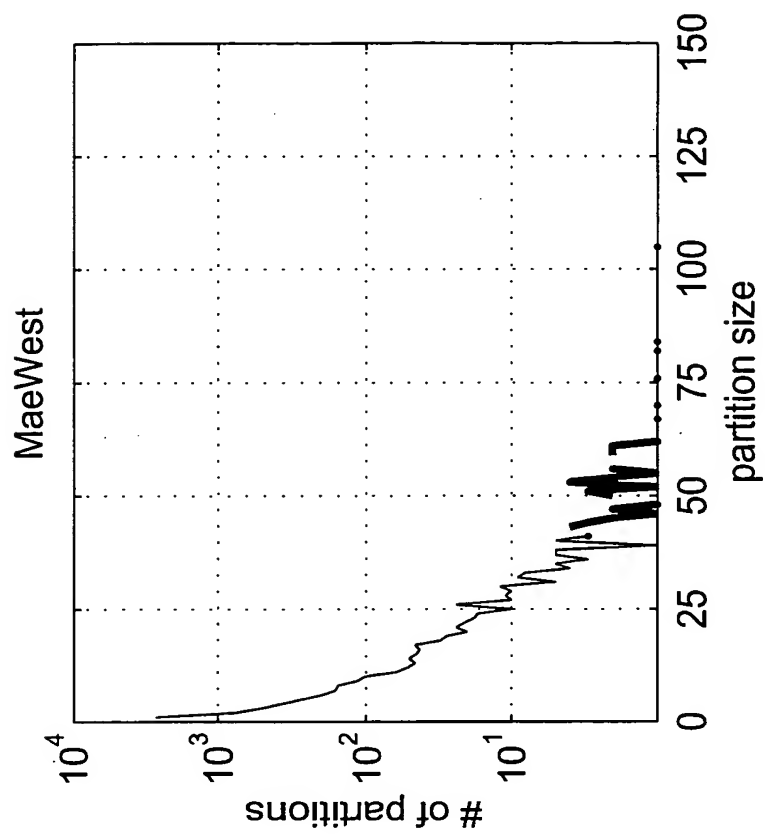


FIG. 2D

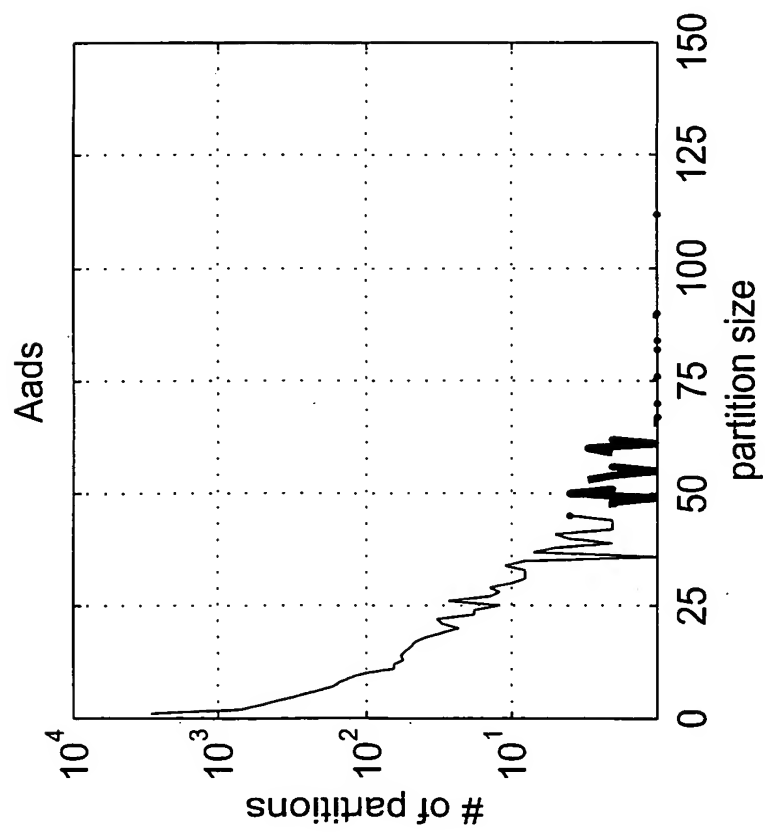


FIG. 2C

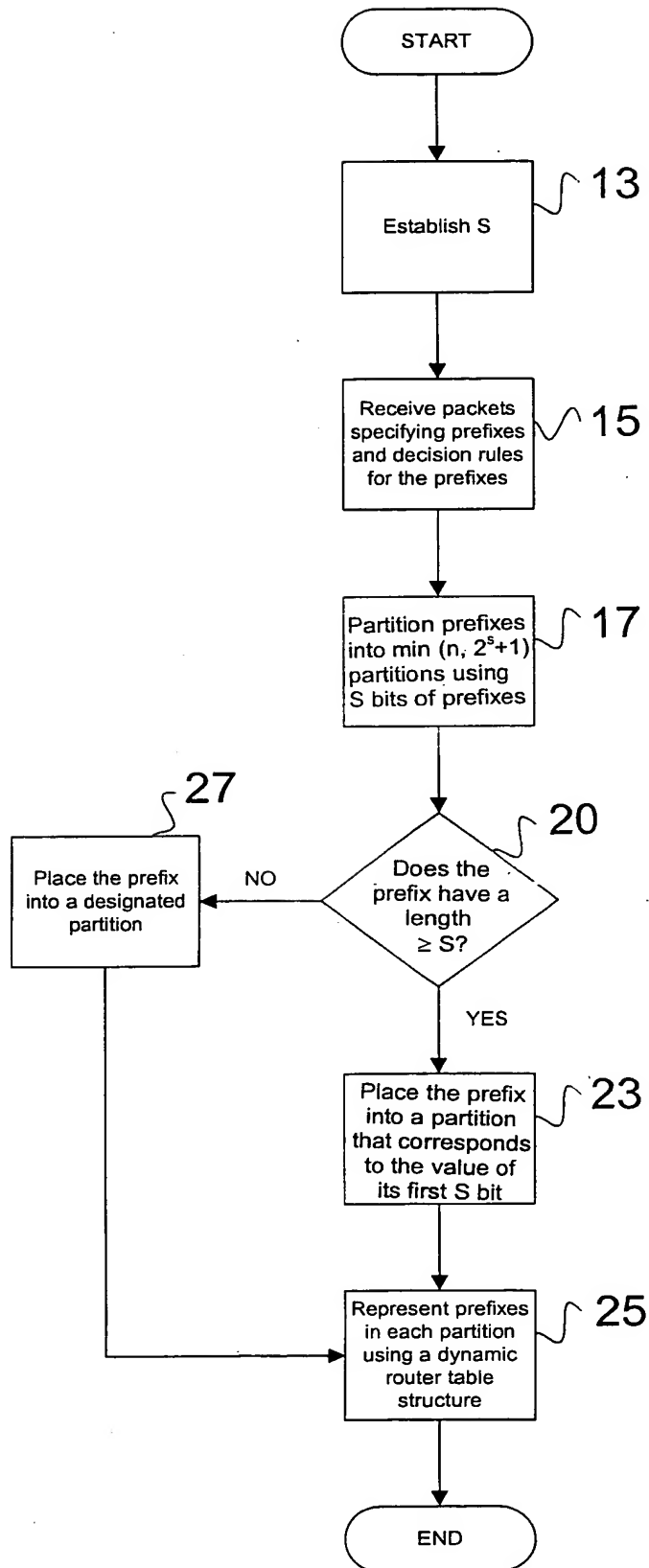


Figure 3

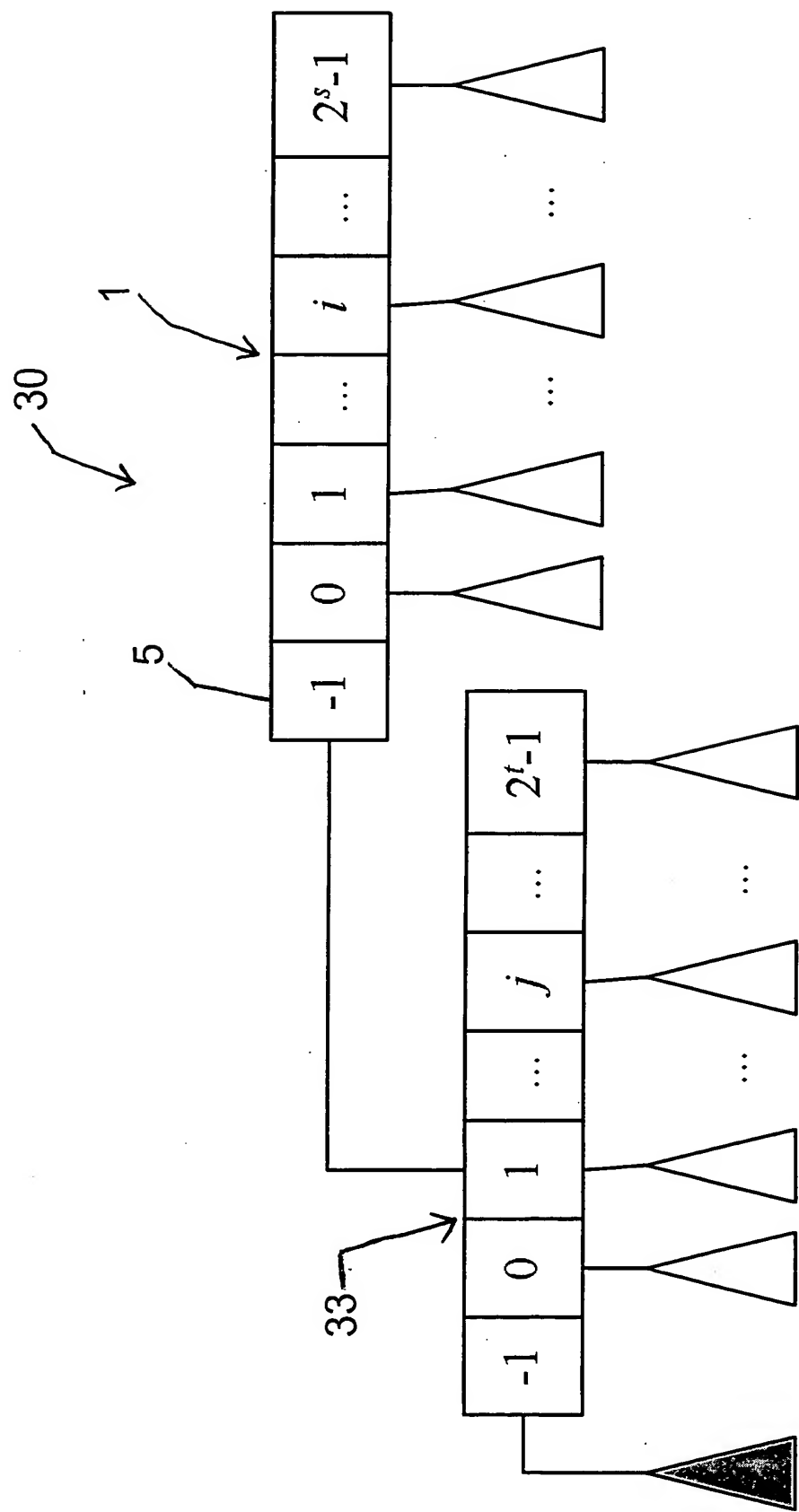
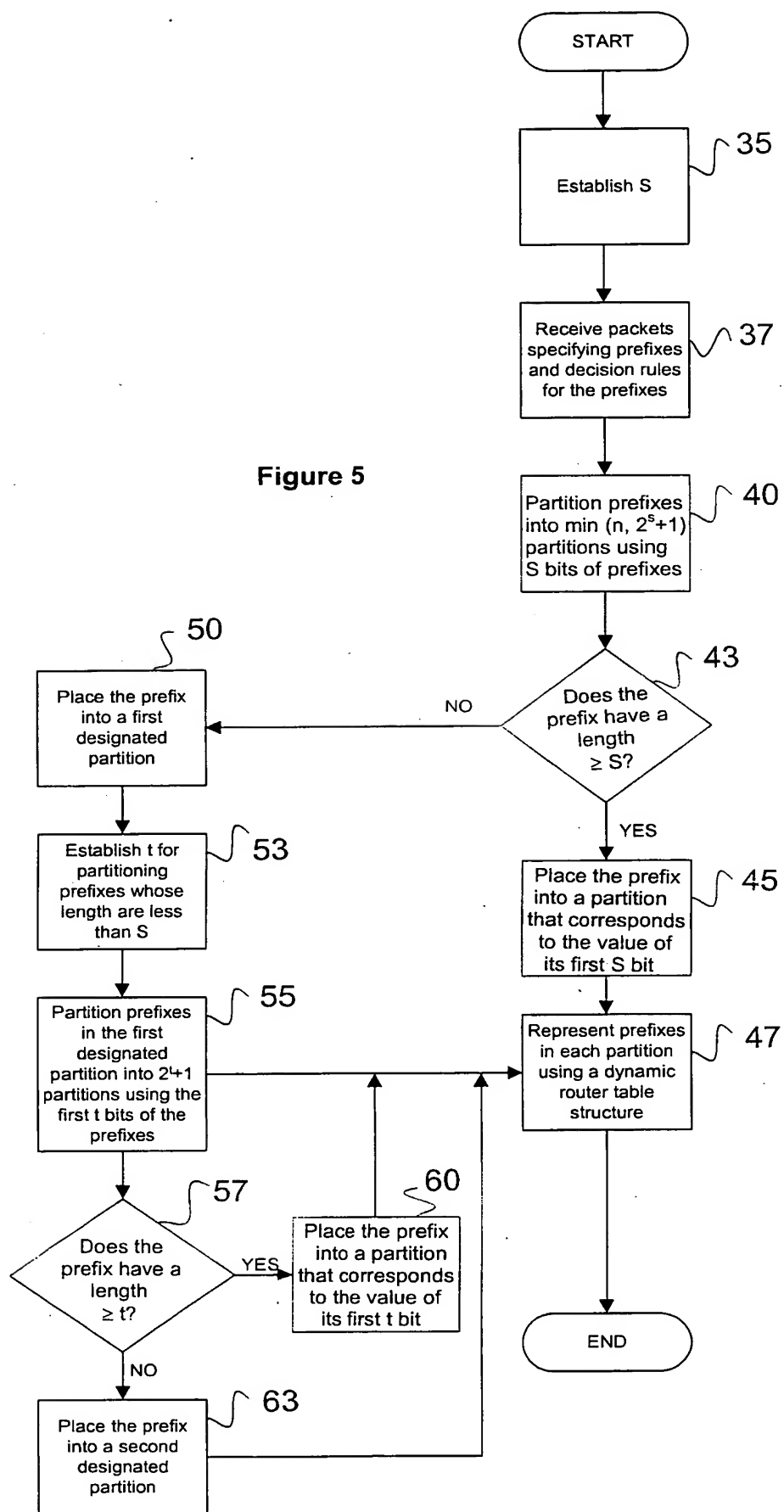


FIG. 4



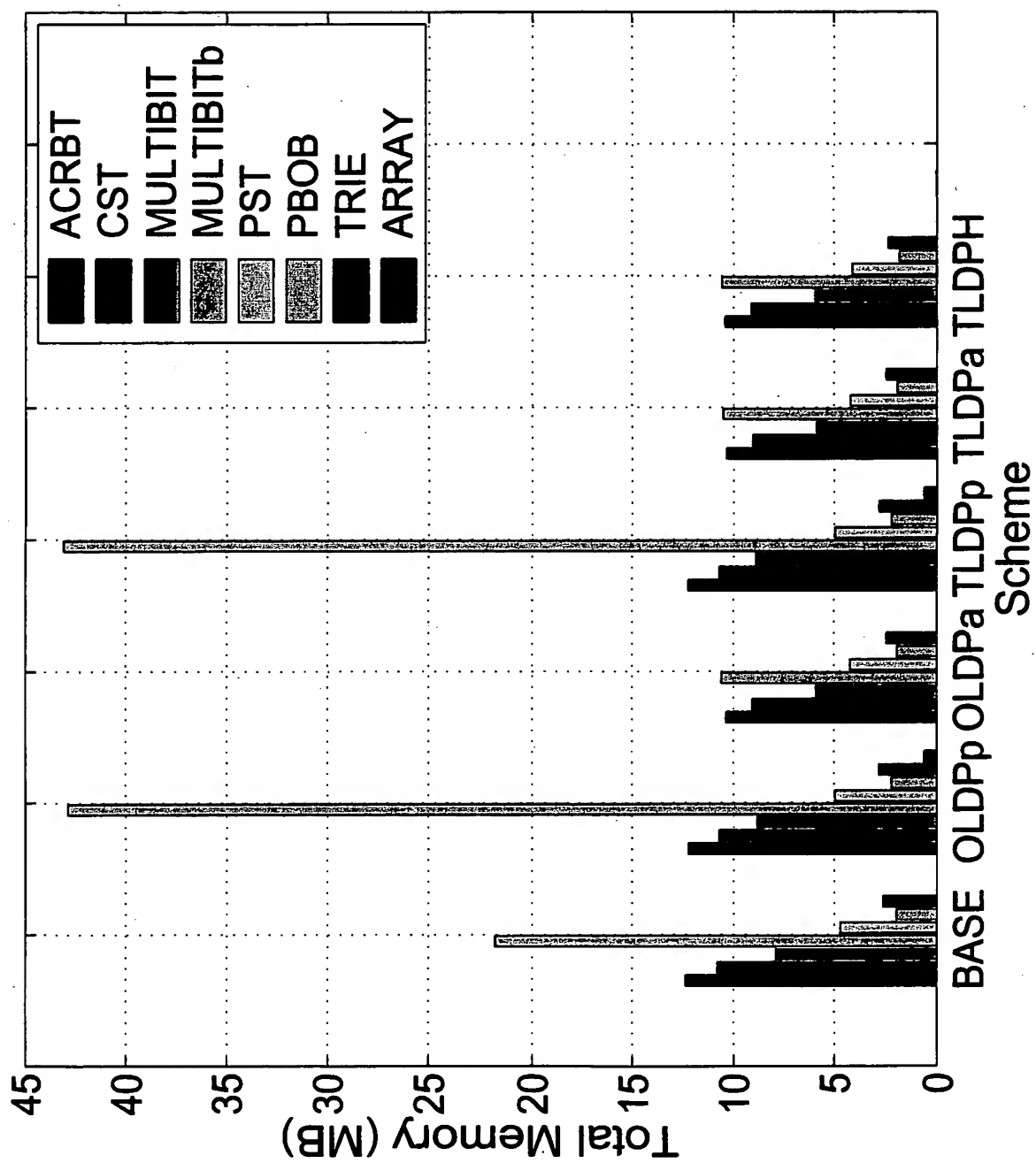


FIG. 6

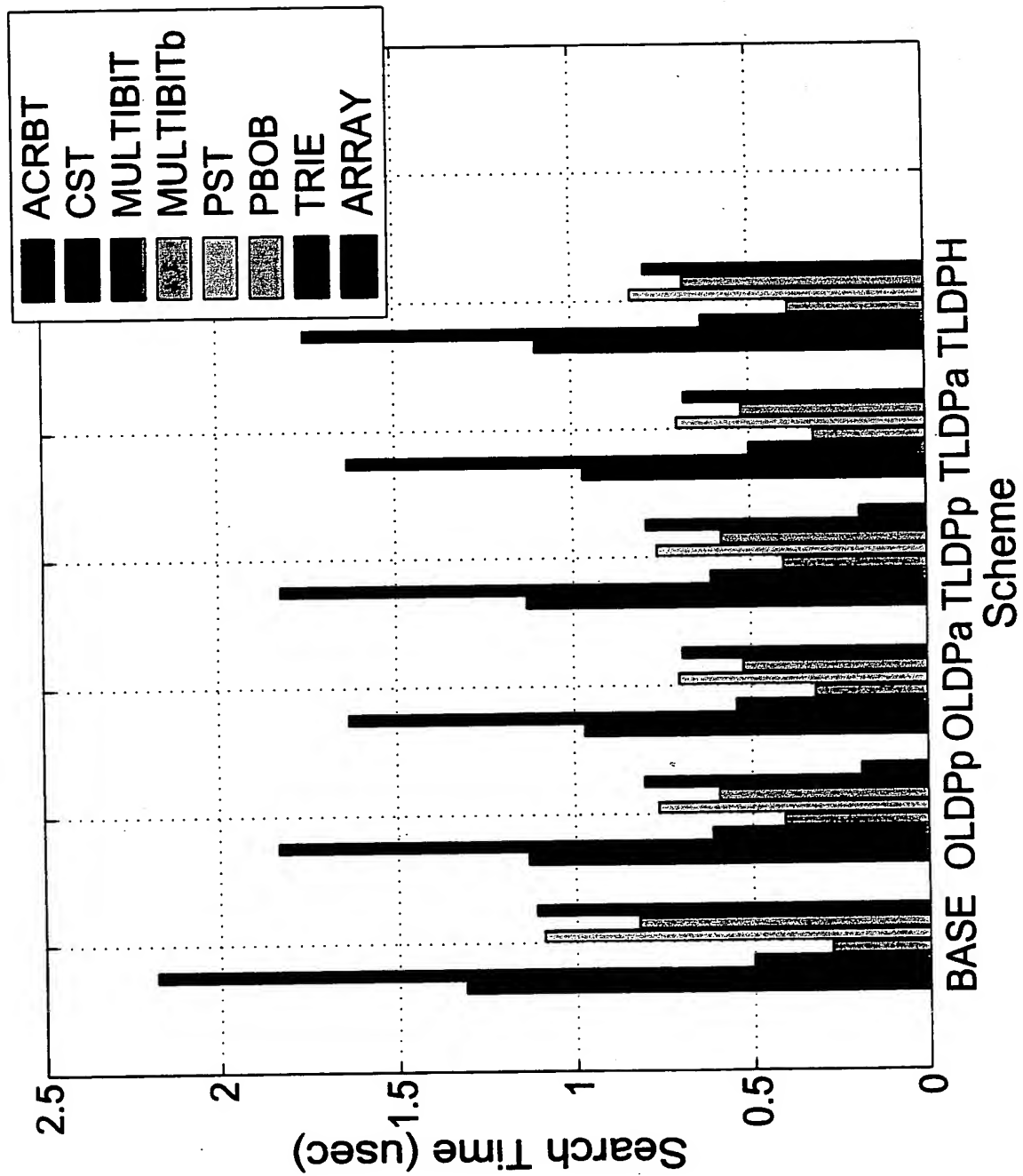


FIG. 7A

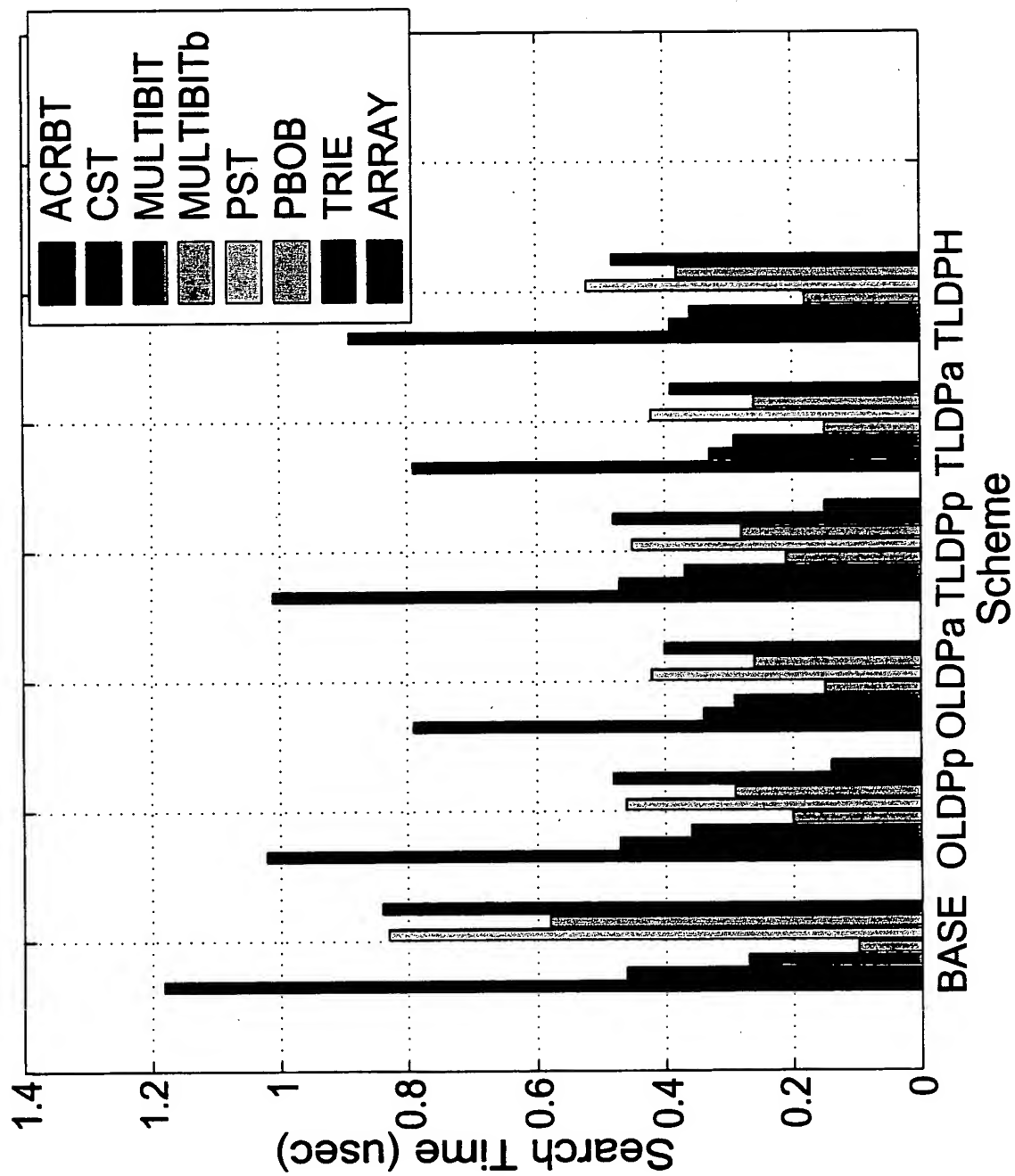


FIG. 7B

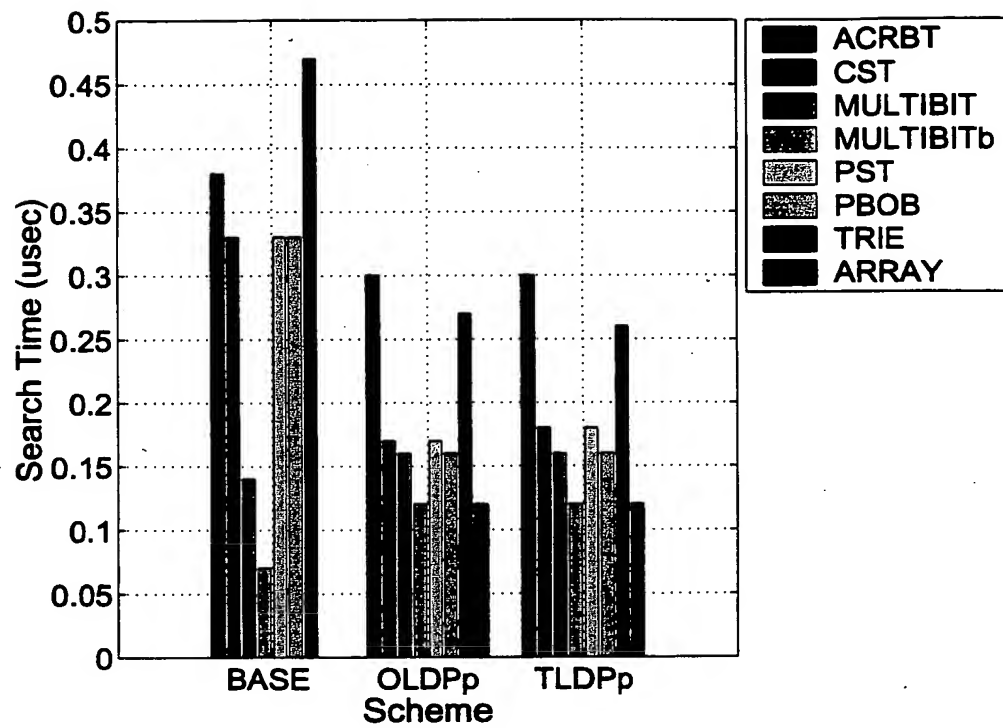


FIG. 7C

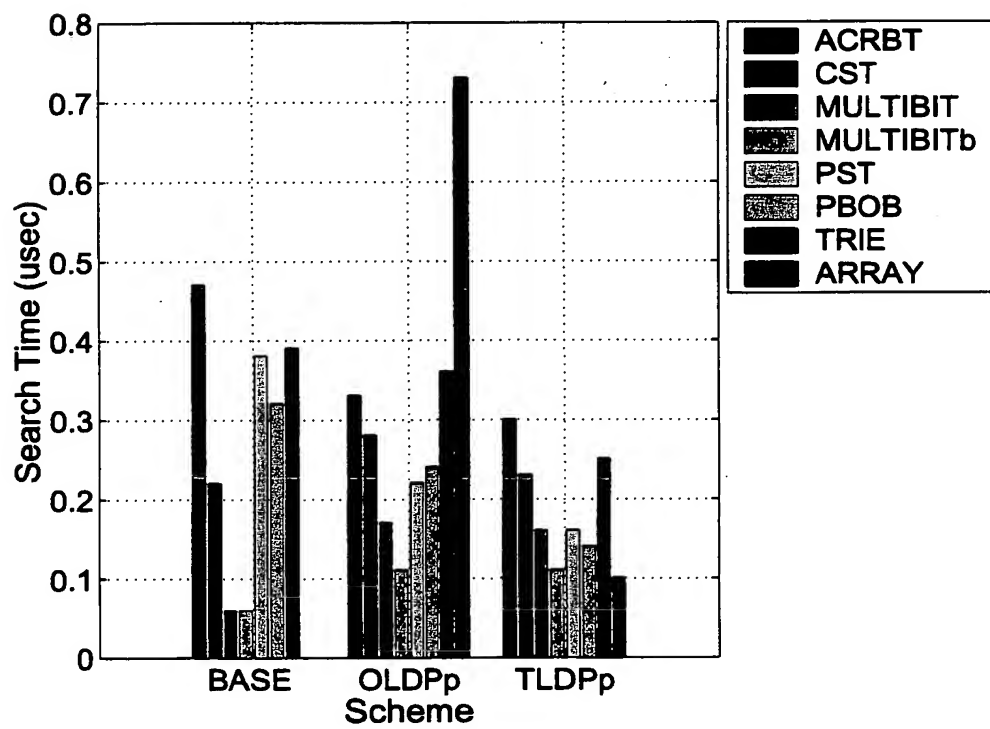


FIG. 7D

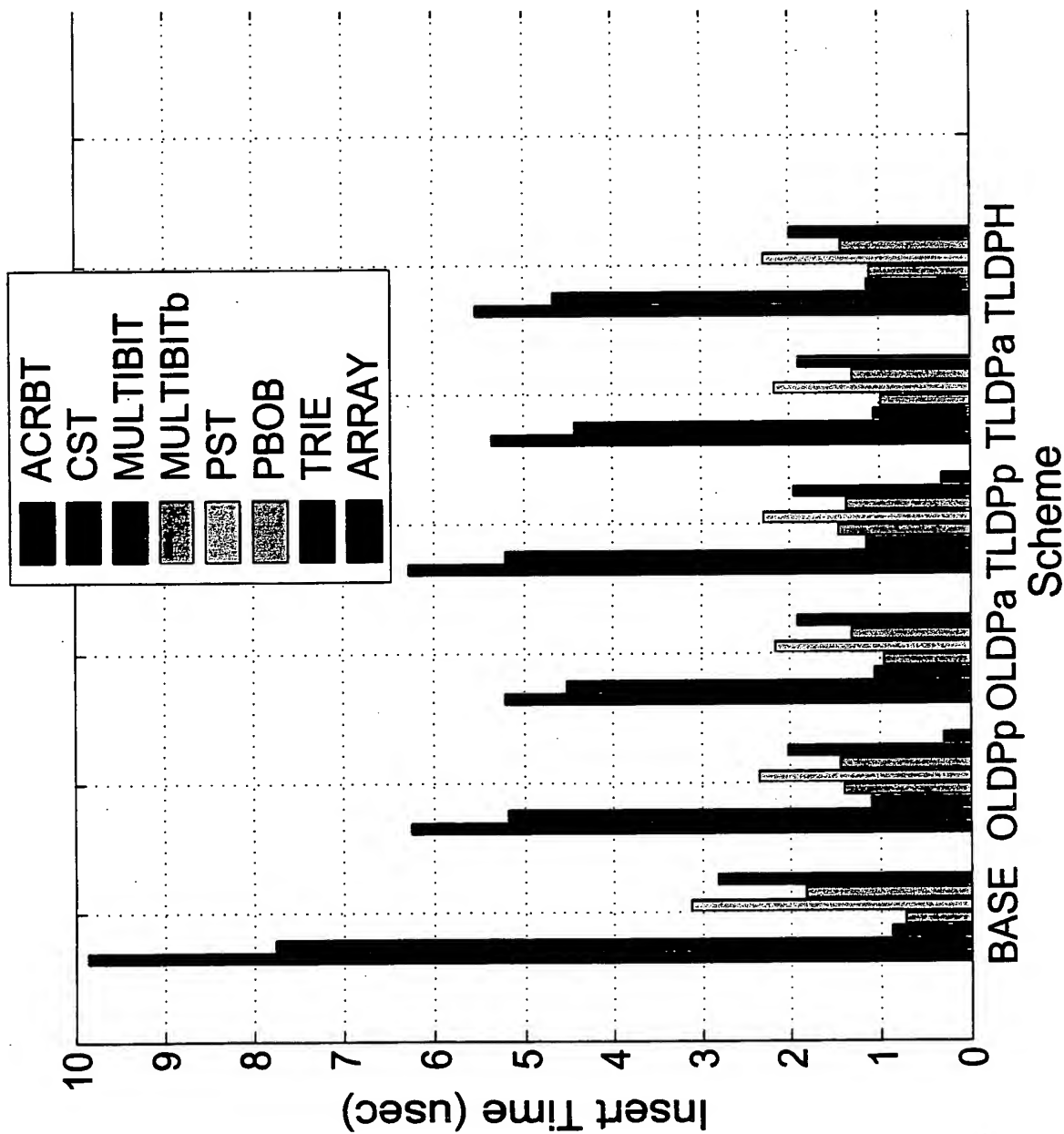


FIG. 8

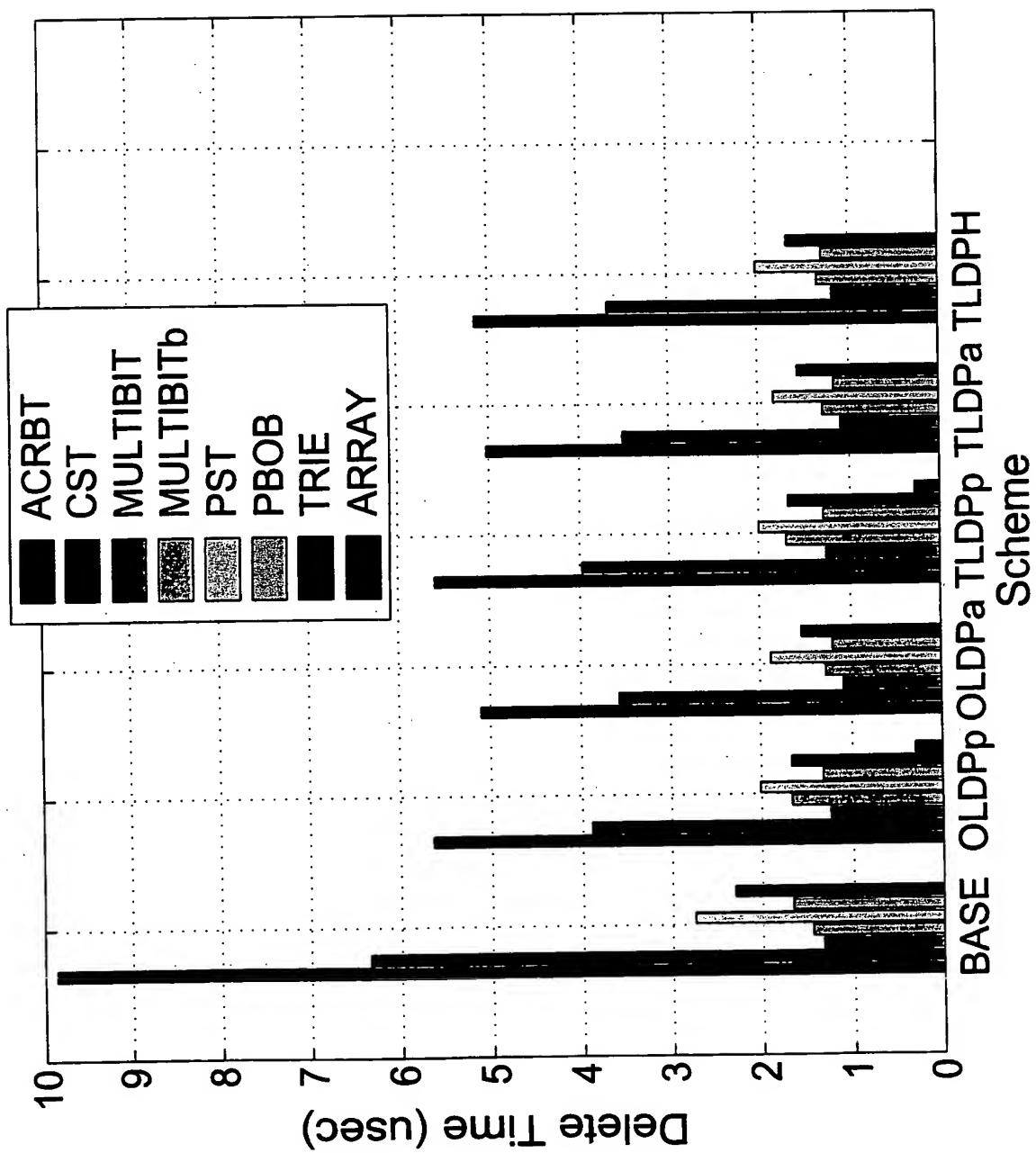


FIG. 9

| | |
|-----------------|------------------|
| $P2 = 1*$ | $001 * (P1b)$ |
| $P3 = 11*$ | $010 * (P1c)$ |
| $P4 = 101*$ | $011 * (P1d)$ |
| $P5 = 10001*$ | $100 * (P2)$ |
| $P6 = 1100*$ | $101 * (P4)$ |
| $P7 = 110000*$ | $110 * (P3a)$ |
| $P8 = 1100000*$ | $111 * (P3b)$ |
| | $10001 * (P5)$ |
| | $11000 * (P6a)$ |
| | $11001 * (P6b)$ |
| | $1100000 * (P8)$ |
| | $1100001 * (P7)$ |

FIG. 10A

FIG. 10B

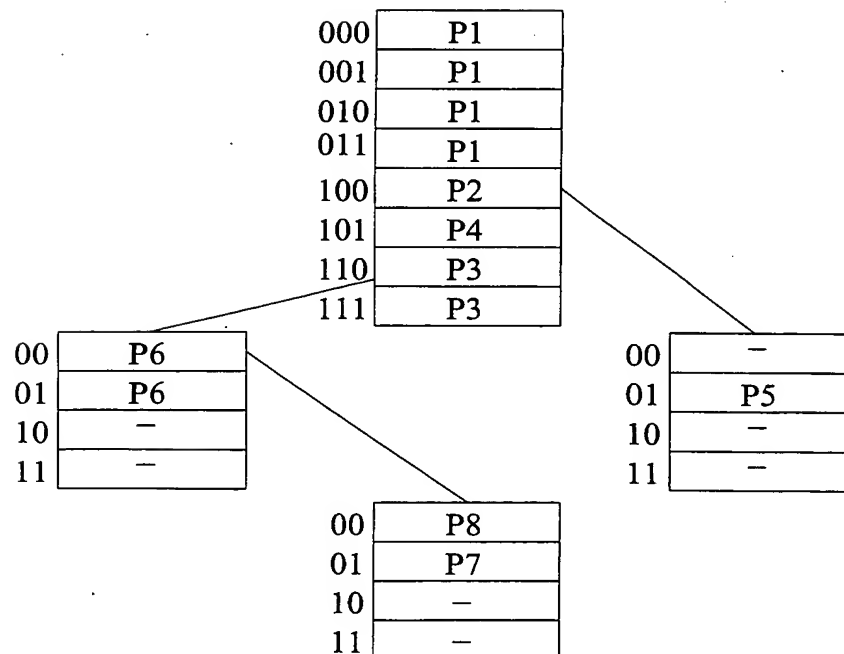


FIG. 11

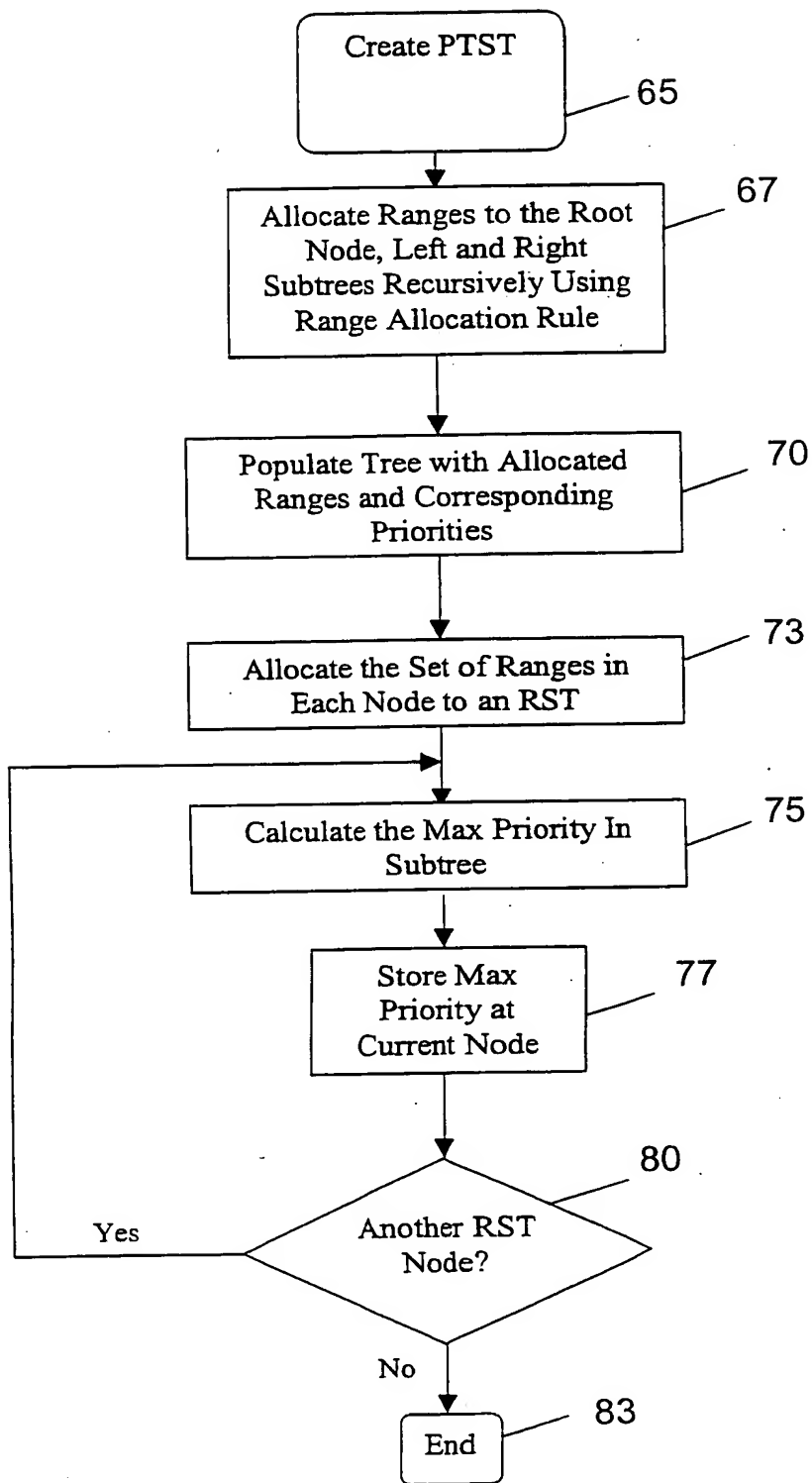


FIG. 12A

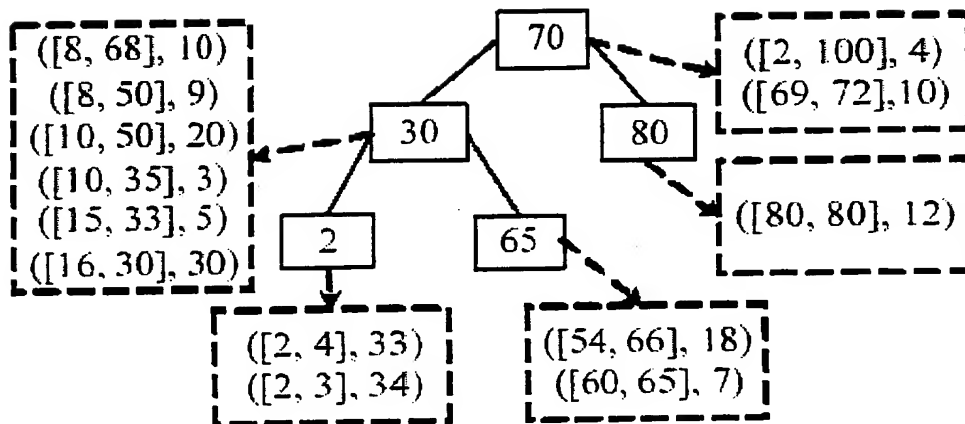


FIG. 12B

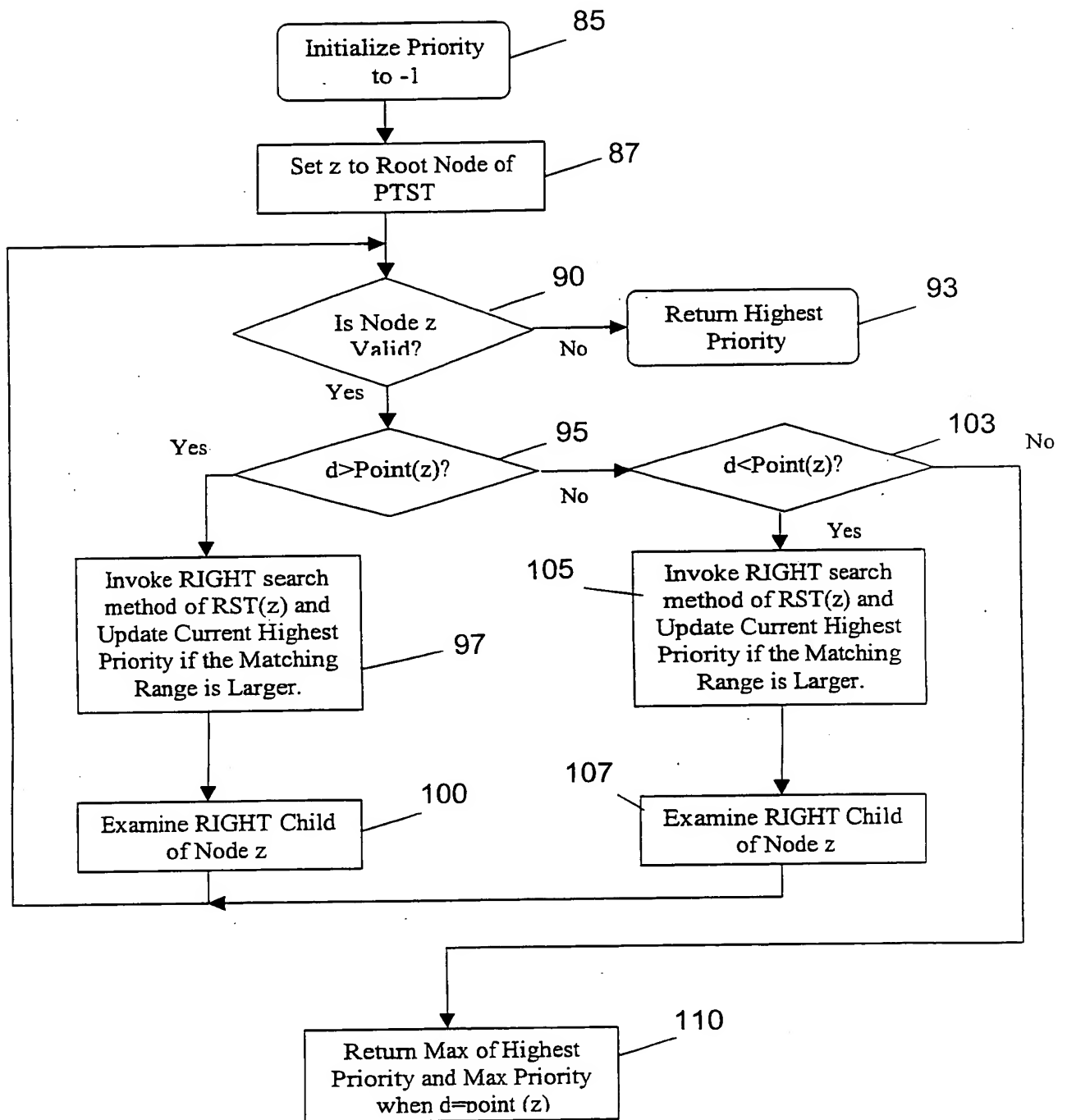


FIG. 13

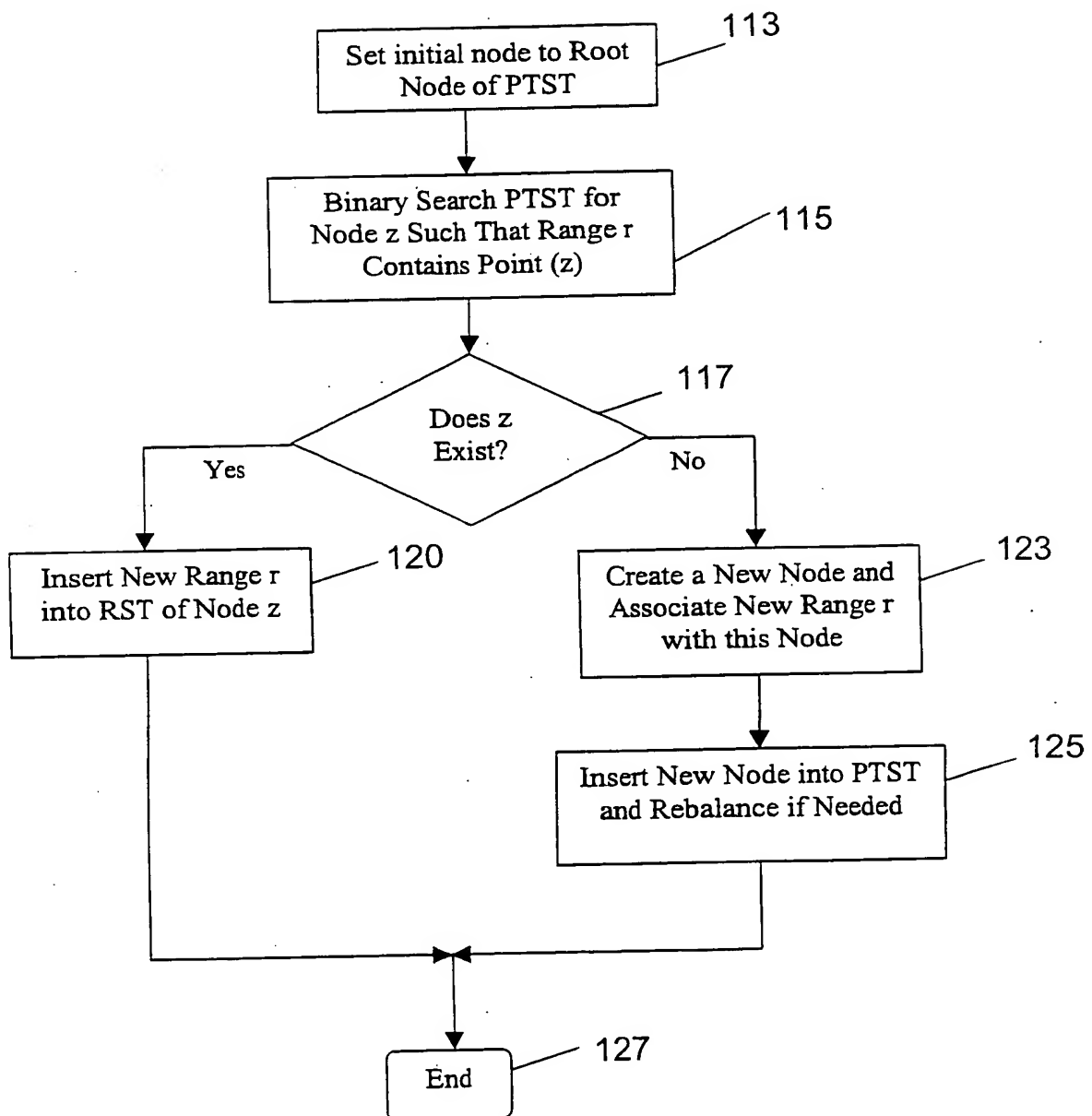


FIG. 14A

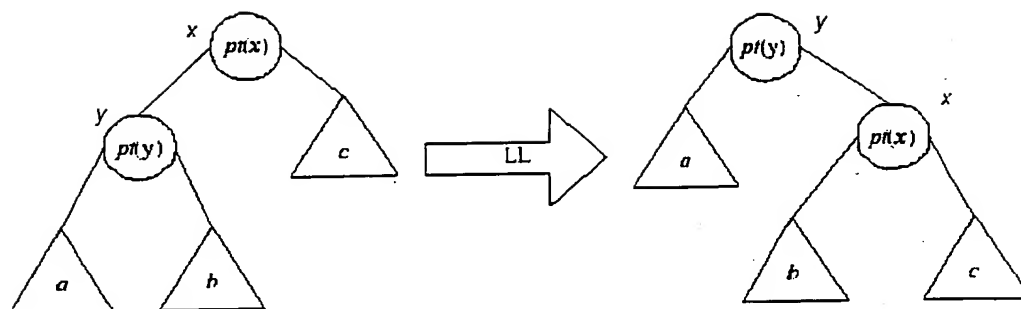


FIG. 14B

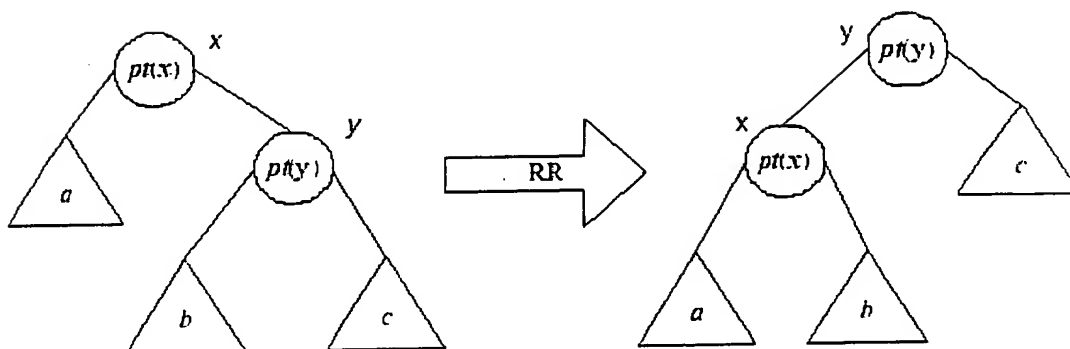


FIG. 14C

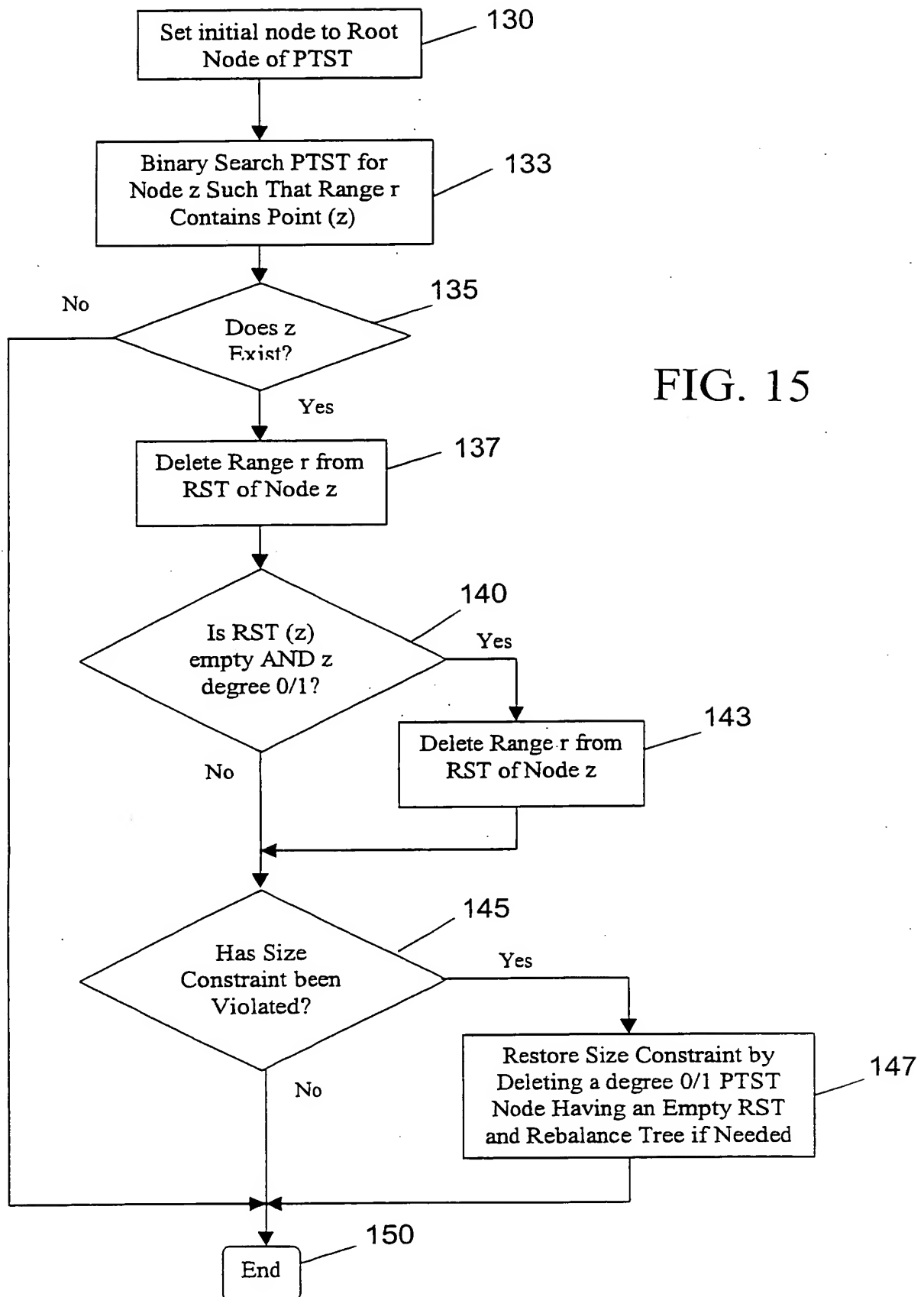
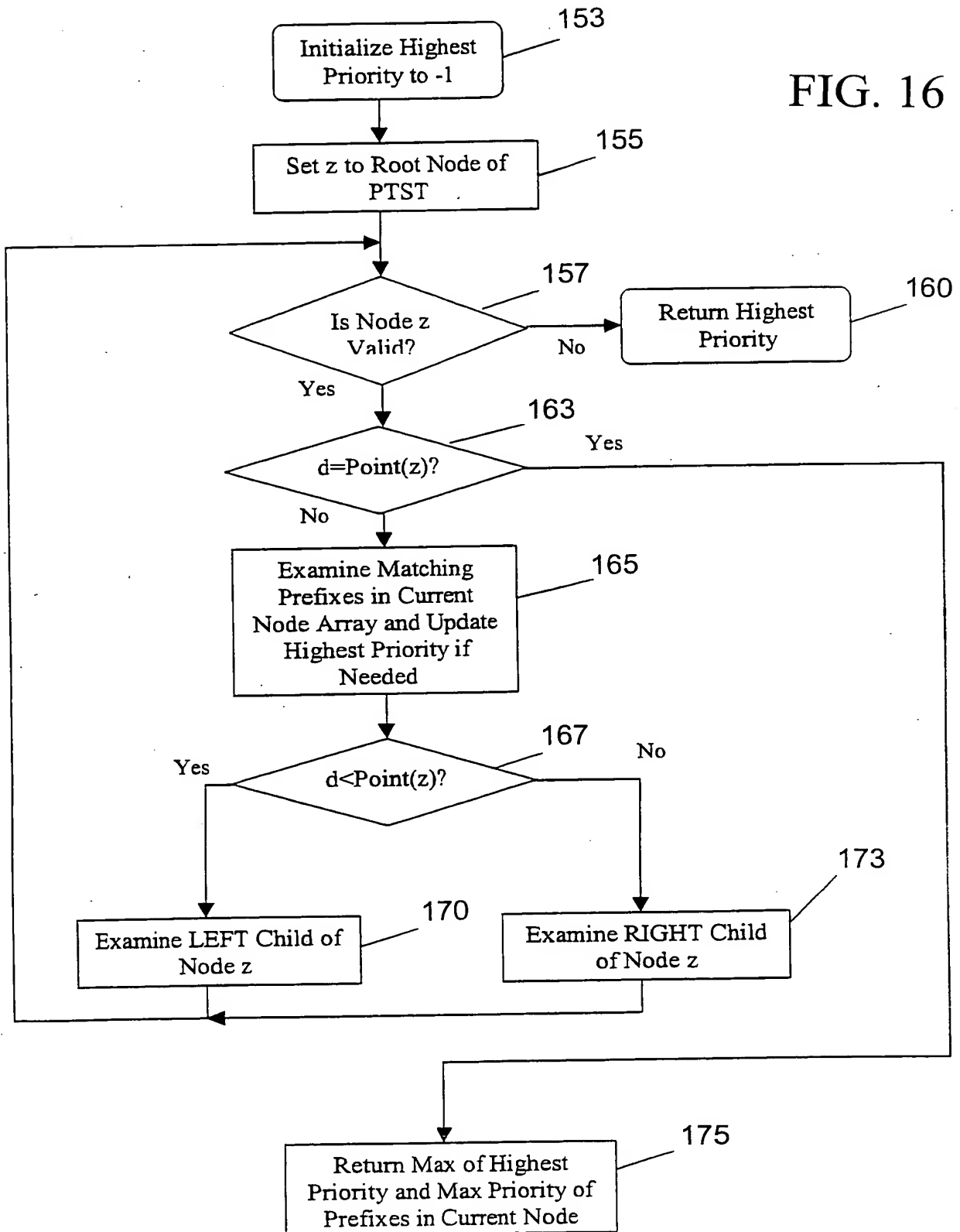


FIG. 16



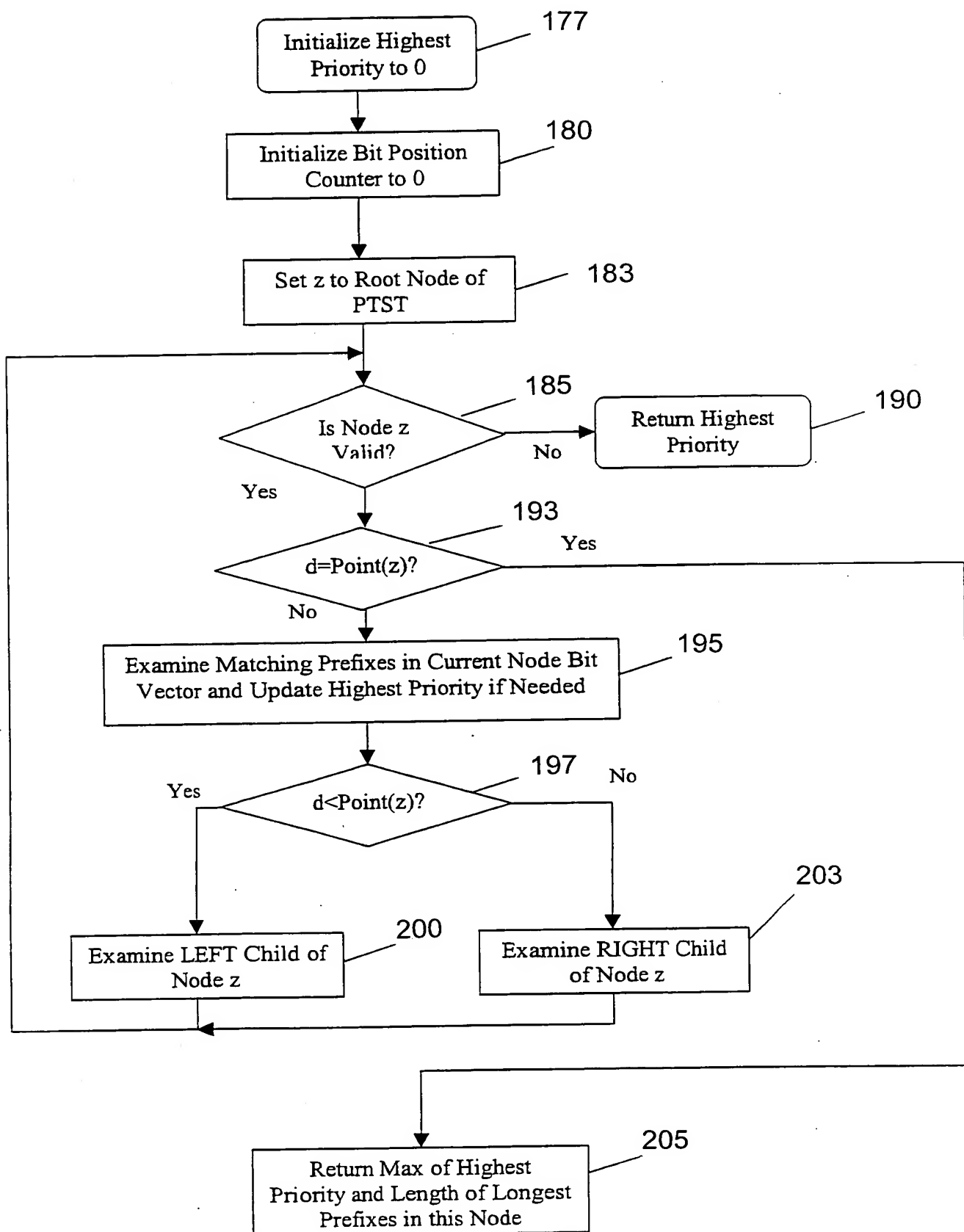


FIG. 17

| Database | | Paix1 | Pb1 | MaeWest | Aads | Pb2 | Paix2 |
|------------------|--------|-------|-------|---------|-------|-------|-------|
| Num of Prefixes | | 16172 | 22225 | 28889 | 31827 | 35303 | 85988 |
| Measure1 (KB) | PST | 884 | 1215 | 1579 | 1740 | 1930 | 4702 |
| | BOB | 851 | 1176 | 1526 | 1682 | 1876 | 4527 |
| | PBOB | 357 | 495 | 642 | 708 | 790 | 1901 |
| | LMPBOB | 357 | 495 | 642 | 708 | 790 | 1901 |
| Measure2 (KB) | PST | 221 | 303 | 395 | 435 | 482 | 1175 |
| | BOB | 331 | 455 | 592 | 652 | 723 | 1760 |
| | PBOB | 189 | 260 | 338 | 372 | 413 | 1007 |
| | LMPBOB | 189 | 260 | 338 | 372 | 413 | 1007 |

FIG. 18

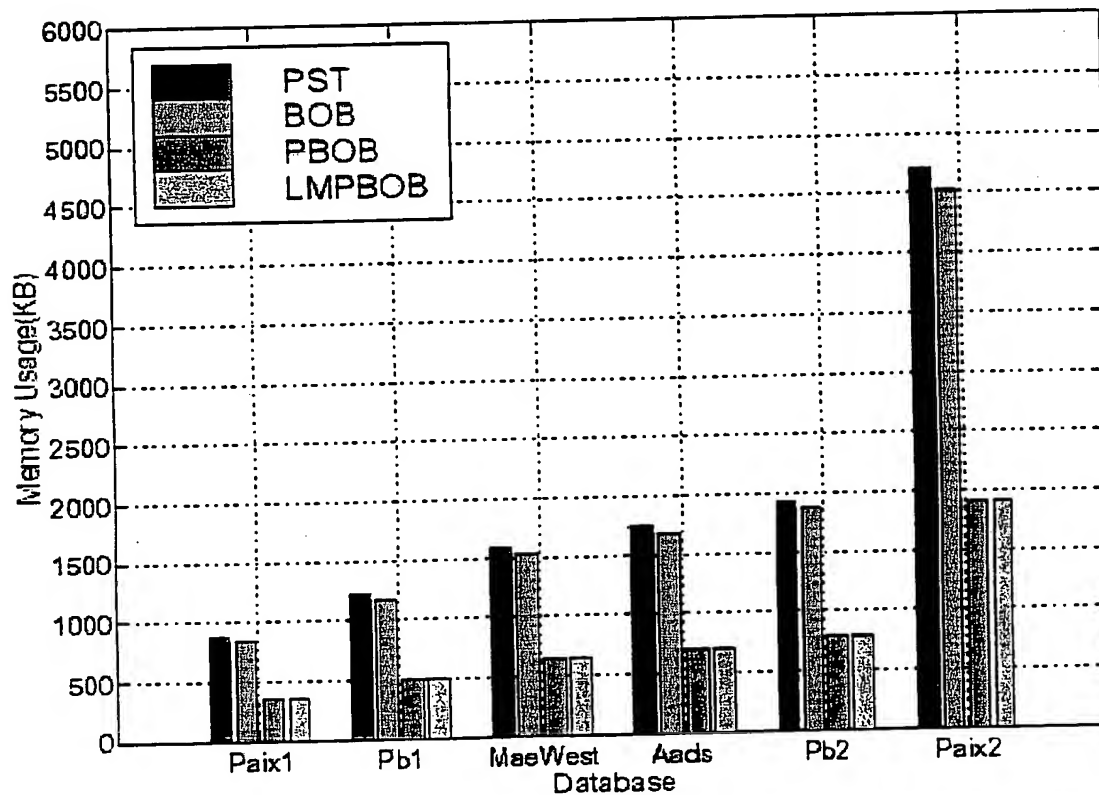


FIG. 19

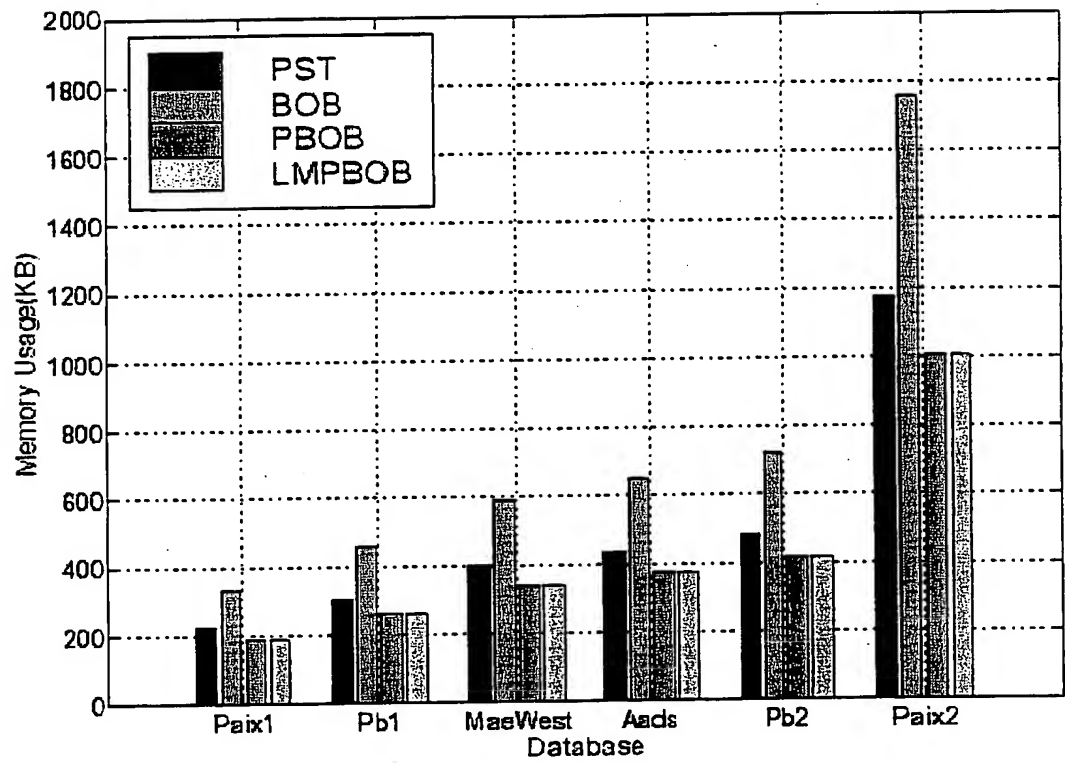


FIG. 20

| Database | | | Pair1 | Pb1 | MaeWest | Aads | Pb2 | Pair2 |
|------------------------|--------|------|-------|------|---------|------|------|-------|
| Search (μ sec) | PST | Mean | 1.20 | 1.35 | 1.49 | 1.53 | 1.57 | 1.96 |
| | | Std | 0.01 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 |
| | BOB | Mean | 1.22 | 1.39 | 1.54 | 1.56 | 1.62 | 2.19 |
| | | Std | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 |
| | PBOB | Mean | 0.82 | 0.98 | 1.10 | 1.15 | 1.20 | 1.60 |
| | | Std | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | LMPBOB | Mean | 0.87 | 1.03 | 1.17 | 1.21 | 1.27 | 1.69 |
| | | Std | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Insert (μ sec) | PST | Mean | 2.17 | 2.35 | 2.53 | 2.60 | 2.64 | 3.03 |
| | | Std | 0.07 | 0.04 | 0.03 | 0.01 | 0.05 | 0.01 |
| | BOB | Mean | 1.70 | 1.89 | 2.06 | 2.10 | 2.16 | 2.55 |
| | | Std | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.03 |
| | PBOB | Mean | 1.04 | 1.25 | 1.39 | 1.44 | 1.51 | 1.93 |
| | | Std | 0.06 | 0.05 | 0.00 | 0.05 | 0.05 | 0.06 |
| | LMPBOB | Mean | 1.06 | 1.29 | 1.47 | 1.50 | 1.57 | 1.98 |
| | | Std | 0.07 | 0.07 | 0.06 | 0.06 | 0.04 | 0.01 |
| Delete (μ sec) | PST | Mean | 1.72 | 1.87 | 2.06 | 2.09 | 2.11 | 2.48 |
| | | Std | 0.04 | 0.05 | 0.05 | 0.06 | 0.04 | 0.06 |
| | BOB | Mean | 1.04 | 1.13 | 1.26 | 1.27 | 1.32 | 1.69 |
| | | Std | 0.06 | 0.05 | 0.04 | 0.05 | 0.06 | 0.06 |
| | PBOB | Mean | 0.68 | 0.82 | 0.90 | 0.91 | 0.97 | 1.30 |
| | | Std | 0.07 | 0.06 | 0.05 | 0.06 | 0.03 | 0.05 |
| | LMPBOB | Mean | 0.67 | 0.82 | 0.89 | 0.92 | 0.95 | 1.26 |
| | | Std | 0.06 | 0.06 | 0.05 | 0.05 | 0.03 | 0.05 |
| Num of Copies | | | 15 | 11 | 9 | 8 | 8 | 3 |

FIG. 21

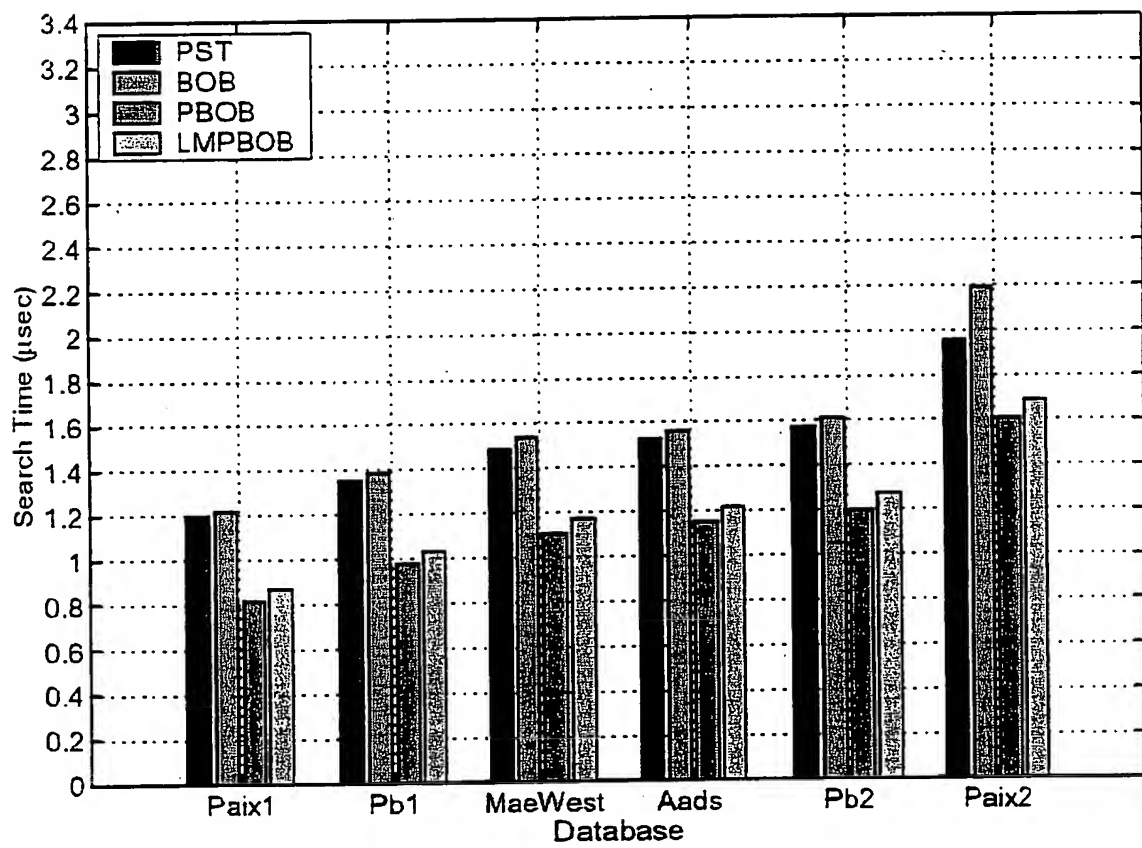


FIG. 22

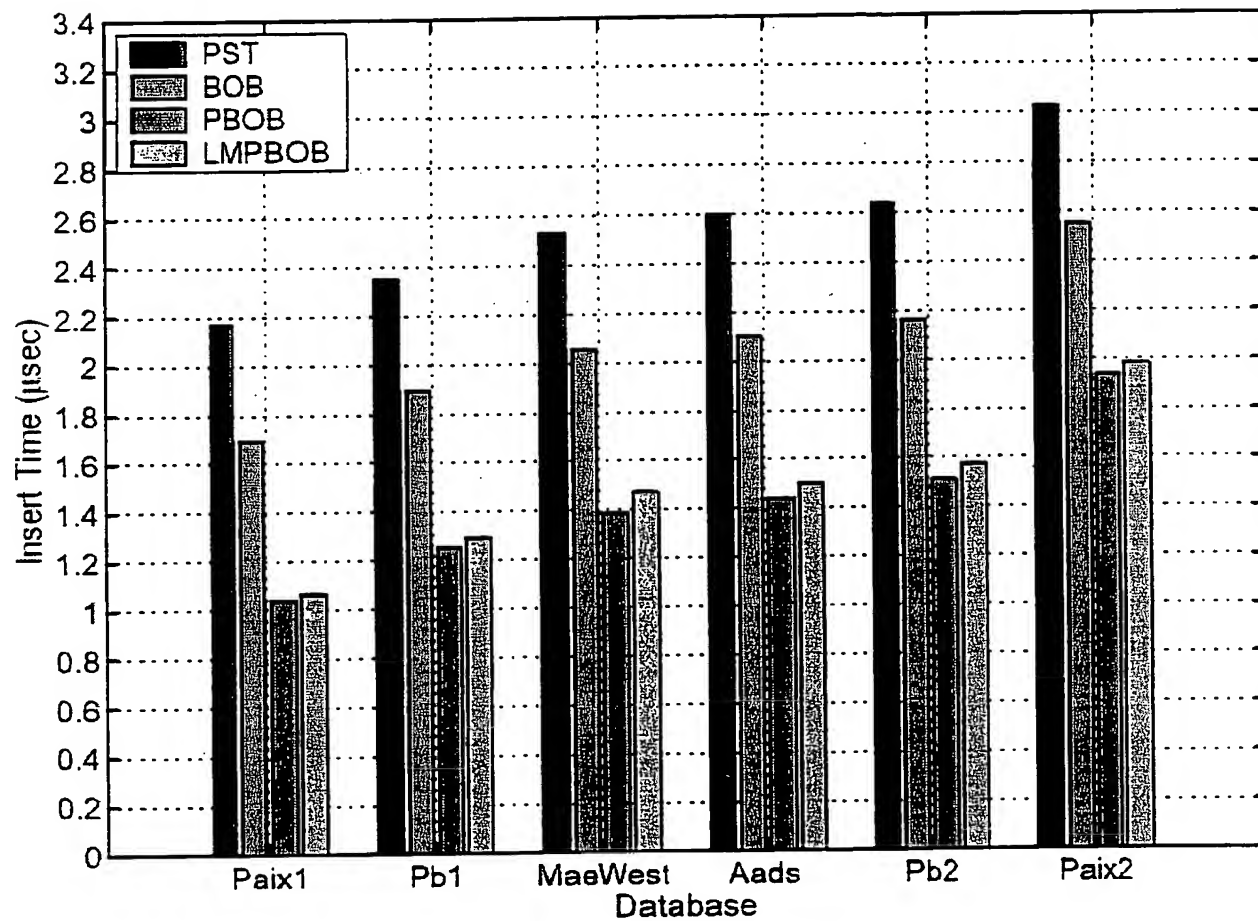


FIG. 23

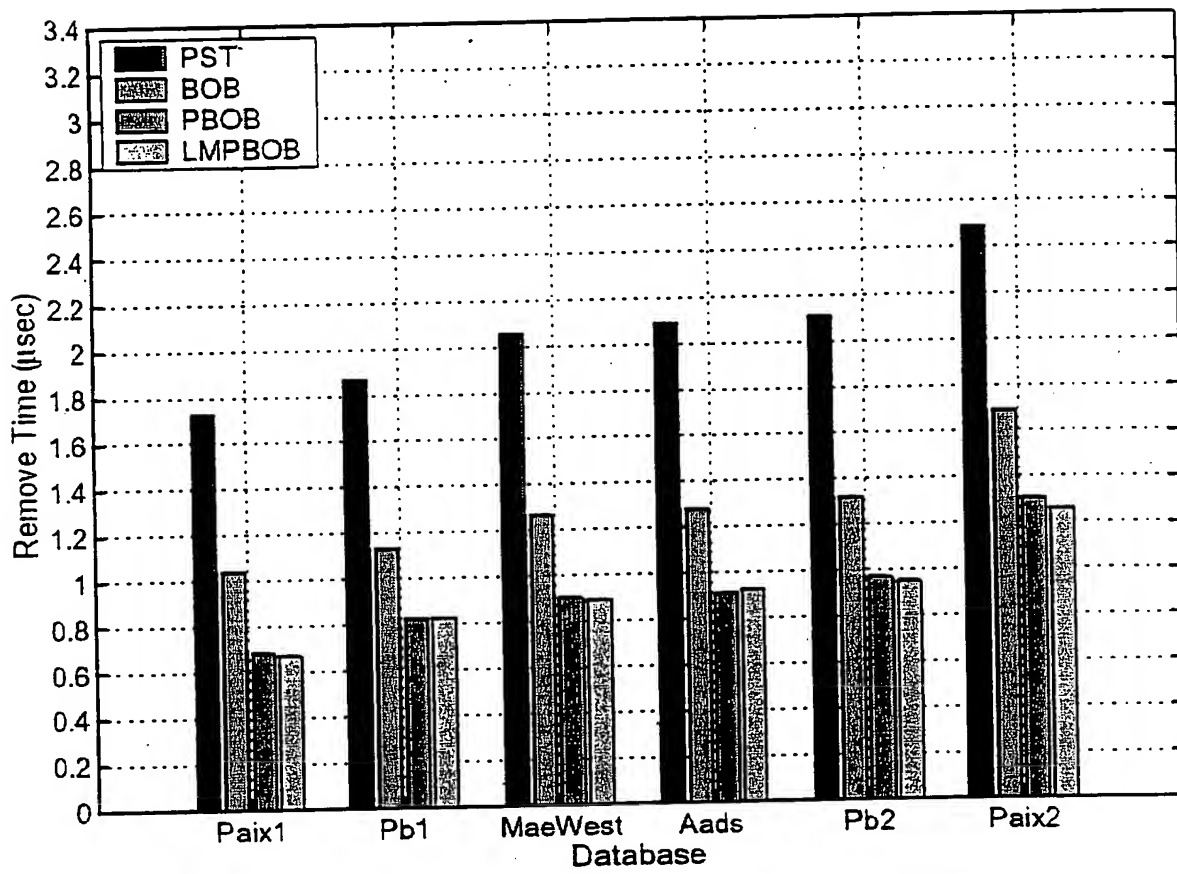


FIG. 24